

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/525,621

Source: PCT

Date Processed by STIC: 3-8-05

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 03/08/2005

PATENT APPLICATION: US/10/525,621

TIME: 10:15:36

Input Set : A:\082368-002400US.TXT

Output Set: N:\CRF4\03082005\J525621.raw

4 <110> APPLICANT: Kiyosue, Yuko
 5 Sasaki, Hiroyuki
 6 Tsukita, Shoichiro
 7 Eisai Co., Ltd.
 9 <120> TITLE OF INVENTION: CULTURED XENOPUS LAEVIS CELL LINES
 10 EXPRESSING MUTANT ADENOMATOUS POLYPOSIS COLI GENE
 13 <130> FILE REFERENCE: 082368-002400US
 C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/525,621
 C--> 15 <141> CURRENT FILING DATE: 2005-02-22
 15 <150> PRIOR APPLICATION NUMBER: PCT/JP03/10434
 16 <151> PRIOR FILING DATE: 2003-08-19
 18 <150> PRIOR APPLICATION NUMBER: JP 2002-241487
 19 <151> PRIOR FILING DATE: 2002-08-22
 21 <160> NUMBER OF SEQ ID NOS: 9
 23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 2829
 27 <212> TYPE: PRT
 28 <213> ORGANISM: Xenopus laevis
 30 <400> SEQUENCE: 1
 31 Met Ala Ala Ala Ser Tyr Asp Gln Leu Val Lys Gln Val Glu Ala Leu
 32 1 5 10 15
 33 Thr Met Glu Asn Thr Asn Leu Arg Gln Glu Leu Glu Asp Asn Ser Asn
 34 20 25 30
 35 His Leu Thr Lys Leu Glu Thr Glu Ala Thr Asn Met Lys Glu Val Leu
 36 35 40 45
 37 Lys Gln Leu Gln Gly Ser Ile Glu Asp Glu Ala Met Ala Ser Ser Gly
 38 50 55 60
 39 Pro Ile Asp Leu Leu Glu Arg Phe Lys Asp Leu Asn Leu Asp Ser Ser
 40 65 70 75 80
 41 Asn Ile Pro Ala Gly Lys Ala Arg Pro Lys Met Ser Met Arg Ser Tyr
 42 85 90 95
 43 Gly Ser Arg Glu Gly Ser Leu Ser Gly His Ser Gly Glu Cys Ser Pro
 44 100 105 110
 45 Val Pro Val Gly Ser Phe Gln Arg Arg Gly Leu Leu Asn Gly Ser Arg
 46 115 120 125
 47 Glu Ser Ala Gly Tyr Met Glu Glu Leu Glu Lys Glu Arg Leu Leu Leu
 48 130 135 140
 49 Ile Ala Glu His Glu Lys Glu Glu Lys Glu Lys Arg Trp Tyr Tyr Ala
 50 145 150 155 160
 51 Gln Leu Gln Asn Leu Thr Lys Arg Ile Asp Ser Leu Pro Leu Thr Glu
 52 165 170 175
 53 Asn Phe Ser Met Gln Thr Asp Met Thr Arg Arg Gln Leu Glu Tyr Glu

RAW SEQUENCE LISTING

DATE: 03/08/2005

PATENT APPLICATION: US/10/525,621

TIME: 10:15:36

Input Set : A:\082368-002400US.TXT

Output Set: N:\CRF4\03082005\J525621.raw

```

54          180          185          190
55 Ala Arg Gln Ile Arg Ala Ala Met Glu Glu Gln Leu Gly Thr Cys Gln
56          195          200          205
57 Asp Met Glu Lys Arg Val Gln Thr Arg Val Gly Lys Ile His Gln Ile
58          210          215          220
59 Glu Glu Glu Ile Leu Arg Ile Arg Gln Leu Leu Gln Ser Gln Val Ala
60 225          230          235          240
61 Glu Ala Ala Glu Arg Thr Pro Gln Ser Lys His Asp Ala Gly Ser Arg
62          245          250          255
63 Asp Ala Glu Lys Leu Pro Asp Gly Gln Gly Thr Ser Glu Ile Thr Ala
64          260          265          270
65 Ser Gly Asn Val Gly Ser Gly Gln Gly Ser Ser Ser Arg Ala Asp His
66          275          280          285
67 Asp Thr Thr Ser Val Met Ser Ser Asn Ser Thr Tyr Ser Val Pro Arg
68          290          295          300
69 Arg Leu Thr Ser His Leu Gly Thr Lys Val Glu Met Val Tyr Ser Leu
70 305          310          315          320
71 Leu Ser Met Leu Gly Thr His Asp Lys Asp Asp Met Ser Arg Thr Leu
72          325          330          335
73 Leu Ala Met Ser Ser Ser Gln Asp Ser Cys Ile Ala Met Arg Gln Ser
74          340          345          350
75 Gly Cys Leu Pro Leu Leu Ile Gln Leu Leu His Gly Asn Asp Lys Asp
76          355          360          365
77 Ser Val Leu Leu Gly Asn Ser Arg Gly Ser Lys Glu Ala Arg Ala Ser
78          370          375          380
79 Gly Ser Ala Ala Leu Asp Asn Ile Ile His Ser Gln Pro Asp Asp Lys
80 385          390          395          400
81 Arg Gly Arg Arg Glu Ile Arg Val Leu His Leu Leu Glu Gln Ile Arg
82          405          410          415
83 Ala Tyr Cys Glu Thr Cys Trp Glu Trp Gln Glu Ala His Glu Gln Gly
84          420          425          430
85 Met Asp Gln Asp Lys Asn Pro Met Pro Ala Pro Val Asp His Gln Ile
86          435          440          445
87 Cys Pro Ala Val Cys Val Leu Met Lys Leu Ser Phe Asp Glu Glu His
88          450          455          460
89 Arg His Ala Met Asn Glu Leu Gly Gly Leu Gln Ala Ile Ala Glu Leu
90 465          470          475          480
91 Leu Gln Val Asp Cys Glu Met Tyr Gly Leu Ile Asn Asp His Tyr Ser
92          485          490          495
93 Val Thr Leu Arg Arg Tyr Ala Gly Met Ala Leu Thr Asn Leu Thr Phe
94          500          505          510
95 Gly Asp Val Ala Asn Lys Ala Thr Leu Cys Ser Met Lys Ser Cys Met
96          515          520          525
97 Arg Ala Leu Val Ala Gln Leu Lys Ser Glu Ser Glu Asp Leu Gln Gln
98          530          535          540
99 Val Ile Ala Ser Val Leu Arg Asn Leu Ser Trp Arg Ala Asp Val Asn
100 545          550          555          560
101 Ser Lys Lys Thr Leu Arg Glu Val Gly Ser Val Lys Ala Leu Met Glu
102          565          570          575

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/525,621

DATE: 03/08/2005

TIME: 10:15:36

Input Set : A:\082368-002400US.TXT

Output Set: N:\CRF4\03082005\J525621.raw

```

103 Cys Ala Leu Asp Val Lys Lys Glu Ser Thr Leu Lys Ser Val Leu Ser
104      580      585      590
105 Ala Leu Trp Asn Leu Ser Ala His Cys Thr Glu Asn Lys Ala Asp Ile
106      595      600      605
107 Cys Ser Val Asp Gly Ala Leu Ala Phe Leu Val Ser Thr Leu Thr Tyr
108      610      615      620
109 Arg Ser Gln Thr Asn Thr Leu Ala Ile Ile Glu Ser Gly Gly Gly Ile
110 625      630      635      640
111 Leu Arg Asn Val Ser Ser Leu Ile Ala Thr Asn Glu Asp His Arg Gln
112      645      650      655
113 Ile Leu Arg Glu Asn Asn Cys Leu Gln Thr Leu Leu Gln His Leu Lys
114      660      665      670
115 Ser His Ser Leu Thr Ile Val Ser Asn Ala Cys Gly Thr Leu Trp Asn
116      675      680      685
117 Leu Ser Ala Arg Asn Ala Lys Asp Gln Glu Gly Leu Trp Asp Met Gly
118      690      695      700
119 Ala Val Ser Met Leu Lys Asn Leu Ile His Ser Lys His Lys Met Ile
120 705      710      715      720
121 Ala Met Gly Ser Ala Ala Ala Leu Arg Asn Leu Met Ala Asn Arg Pro
122      725      730      735
123 Ala Lys Tyr Lys Asp Ala Asn Ile Met Ser Pro Gly Ser Ser Val Pro
124      740      745      750
125 Ser Leu His Val Arg Lys Gln Lys Ala Leu Glu Ala Glu Leu Asp Ala
126      755      760      765
127 Gln His Leu Ser Glu Thr Phe Asp Asn Ile Asp Asn Leu Ser Pro Lys
128      770      775      780
129 Thr Thr His Arg Asn Lys Gln Arg His Lys Gln Asn Leu Cys Ser Glu
130 785      790      795      800
131 Tyr Ala Leu Asp Ser Ser Arg His Asp Asp Ser Ile Cys Arg Ser Asp
132      805      810      815
133 Asn Phe Ser Ile Gly Asn Leu Thr Val Leu Ser Pro Tyr Ile Asn Thr
134      820      825      830
135 Thr Val Leu Pro Gly Ser Ser Ser Pro Arg Pro Thr Met Asp Gly Ser
136      835      840      845
137 Arg Pro Glu Lys Asp Arg Glu Arg Thr Ala Gly Leu Gly Asn Tyr His
138      850      855      860
139 Ser Thr Thr Glu Ser Ser Gly Asn Ser Ser Lys Arg Ile Gly Ile Gln
140 865      870      875      880
141 Leu Ser Thr Thr Ala Gln Ile Ser Lys Val Met Asp Glu Val Ser Asn
142      885      890      895
143 Ile His Leu Val Gln Glu Asn Arg Ser Ser Gly Ser Ala Ser Glu Met
144      900      905      910
145 His Cys Met Ser Asp Glu Arg Asn Ser Gln Arg Lys Pro Ser Ser Asn
146      915      920      925
147 His Pro Gln Ser Asn Pro Phe Thr Phe Thr Lys Ala Glu Ser Ser Thr
148      930      935      940
149 Arg Gly Cys Pro Val Ala Phe Met Lys Met Glu Tyr Lys Met Ala Ser
150 945      950      955      960
151 Asn Asp Ser Leu Asn Ser Val Ser Ser Thr Glu Gly Tyr Gly Lys Arg

```

RAW SEQUENCE LISTING

DATE: 03/08/2005

PATENT APPLICATION: US/10/525,621

TIME: 10:15:36

Input Set : A:\082368-002400US.TXT

Output Set: N:\CRF4\03082005\J525621.raw

```

152          965          970          975
153 Gly Gln Val Lys Pro Ser Val Glu Ser Tyr Ser Glu Asp Asp Glu Ser
154          980          985          990
155 Lys Phe Phe Ser Tyr Gly Gln Tyr Pro Ala Gly Leu Ala His Lys Ile
156          995          1000          1005
157 Gln Ser Ala Asn His Met Asp Asp Asn Asp Thr Glu Leu Asp Thr Pro
158          1010          1015          1020
159 Ile Asn Tyr Ser Leu Lys Tyr Ser Asp Glu Gln Leu Asn Ser Gly Arg
160 1025          1030          1035          1040
161 Gln Ser Pro Thr Gln Asn Glu Arg Trp Ser Arg Pro Lys His Ile Ile
162          1045          1050          1055
163 Asp Ser Glu Met Lys Gln Ser Glu Gln Arg Gln Pro Arg Thr Thr Lys
164          1060          1065          1070
165 Thr Thr Tyr Ser Ser Tyr Thr Glu Asn Lys Glu Glu Lys His Lys Lys
166          1075          1080          1085
167 Phe Pro Pro His Phe Asn Gln Ser Glu Asn Val Pro Ala Tyr Thr Arg
168          1090          1095          1100
169 Ser Arg Gly Ala Asn Asn Gln Val Asp Gln Ser Arg Val Ser Ser Asn
170 1105          1110          1115          1120
171 Leu Ser Asn Asn Ser Lys Ala Ser Lys Pro His Cys Gln Val Asp Asp
172          1125          1130          1135
173 Tyr Asp Asp Asp Lys Thr Thr Asn Phe Ser Glu Arg Tyr Ser Glu Glu
174          1140          1145          1150
175 Glu Gln Gln Glu Asp Glu Thr Glu Arg Gln Asn Lys Tyr Asn Ile Lys
176          1155          1160          1165
177 Ala Tyr Ala Ser Glu Glu His His Gly Glu Gln Pro Ile Asp Tyr Ser
178          1170          1175          1180
179 Arg Lys Tyr Ser Thr Asp Val Pro Ser Ser Ala Gln Lys Pro Ser Phe
180 1185          1190          1195          1200
181 Pro Tyr Ser Asn Asn Ser Ser Lys Gln Lys Pro Lys Lys Glu Gln Val
182          1205          1210          1215
183 Ser Ser Asn Ser Asn Thr Pro Thr Pro Ser Pro Asn Ser Asn Arg Gln
184          1220          1225          1230
185 Asn Gln Leu His Pro Asn Ser Ala Gln Ser Arg Pro Gly Leu Asn Arg
186          1235          1240          1245
187 Pro Lys Gln Ile Pro Asn Lys Pro Pro Ser Ile Asn Gln Glu Thr Ile
188          1250          1255          1260
189 Gln Thr Tyr Cys Val Glu Asp Thr Pro Ile Cys Phe Ser Arg Gly Ser
190 1265          1270          1275          1280
191 Ser Leu Ser Ser Leu Ser Ser Ala Glu Asp Glu Ile Glu Gly Arg Glu
192          1285          1290          1295
193 Arg Asn Ser Arg Gly Gln Glu Ser Asn Asn Thr Leu Gln Ile Thr Glu
194          1300          1305          1310
195 Pro Lys Glu Ile Ser Ala Val Ser Lys Asp Gly Ala Val Asn Glu Thr
196          1315          1320          1325
197 Arg Ser Ser Val His His Thr Arg Thr Lys Asn Asn Arg Leu Gln Thr
198          1330          1335          1340
199 Ser Asn Ile Ser Pro Ser Asp Ser Ser Arg His Lys Ser Val Glu Phe
200 1345          1350          1355          1360

```

RAW SEQUENCE LISTING

DATE: 03/08/2005

PATENT APPLICATION: US/10/525,621

TIME: 10:15:36

Input Set : A:\082368-002400US.TXT

Output Set: N:\CRF4\03082005\J525621.raw

```

201 Ser Ser Gly Ala Lys Ser Pro Ser Lys Ser Gly Ala Gln Thr Pro Lys
202           1365           1370           1375
203 Ser Pro Pro Glu His Tyr Val Gln Glu Thr Pro Leu Met Phe Ser Arg
204           1380           1385           1390
205 Cys Thr Ser Gly Ser Ser Leu Asp Ser Phe Glu Ser His Ser Ile Ala
206           1395           1400           1405
207 Ser Ser Ile Ala Ser Ser Val Ala Ser Glu His Met Ile Ser Gly Ile
208           1410           1415           1420
209 Ile Ser Pro Ser Asp Leu Pro Asp Ser Pro Gly Gln Thr Met Pro Pro
210 1425           1430           1435           1440
211 Ser Arg Ser Lys Thr Pro Pro Pro Pro Gln Thr Val Gln Ala Lys Lys
212           1445           1450           1455
213 Asp Gly Ser Lys Pro Ile Val Pro Asp Glu Glu Arg Gly Lys Val Ala
214           1460           1465           1470
215 Lys Thr Ala Val His Ser Ala Ile Gln Arg Val Gln Val Leu Gln Glu
216           1475           1480           1485
217 Ala Asp Thr Leu Leu His Phe Ala Thr Glu Ser Thr Pro Asp Gly Phe
218           1490           1495           1500
219 Ser Cys Ala Ser Ser Leu Ser Ala Leu Ser Leu Asp Glu Pro Tyr Ile
220 1505           1510           1515           1520
221 Gln Lys Asp Val Gln Leu Lys Ile Met Pro Pro Val Leu Glu Asn Asp
222           1525           1530           1535
223 Gln Gly Asn Lys Ala Glu Pro Glu Lys Glu Phe Ile Asp Asn Lys Ala
224           1540           1545           1550
225 Lys Lys Glu Asp Lys Arg Ser Glu Gln Glu Lys Asp Met Leu Asp Asp
226           1555           1560           1565
227 Thr Asp Asp Asp Ile Asp Ile Leu Glu Glu Cys Ile Ile Ser Ala Met
228           1570           1575           1580
229 Pro Arg Lys Pro Ser Arg Lys Asn Lys Lys Val Pro Gln Pro Thr Pro
230 1585           1590           1595           1600
231 Gly Lys Pro Pro Pro Pro Val Ala Arg Lys Pro Ser Gln Leu Pro Val
232           1605           1610           1615
233 Tyr Lys Leu Leu Ser Ser Gln Asn Arg Leu Gln Thr Gln Lys His Val
234           1620           1625           1630
235 Asn Phe Thr His Ser Asp Asp Met Pro Arg Val Tyr Cys Val Glu Gly
236           1635           1640           1645
237 Thr Pro Ile Asn Phe Ser Thr Ala Thr Ser Leu Ser Asp Leu Thr Ile
238           1650           1655           1660
239 Glu Ser Pro Pro Ser Glu Pro Thr Asn Asp Gln Pro Asn Thr Asp Ser
240 1665           1670           1675           1680
241 Leu Ser Thr Asp Leu Glu Lys Arg Asp Thr Ile Pro Thr Glu Gly Arg
242           1685           1690           1695
243 Ser Thr Asp Asp Thr Asp Ala Ser Lys Pro Leu Asn Pro Thr Thr Val
244           1700           1705           1710
245 Leu Asp Glu Asp Lys Ala Glu Glu Gly Asp Ile Leu Ala Glu Cys Ile
246           1715           1720           1725
247 His Ser Ala Met Pro Lys Gly Lys Ser His Lys Pro Tyr Arg Val Lys
248           1730           1735           1740
249 Lys Ile Met Asp Gln Ile Asn His Thr Ser Ala Ala Thr Ser Ser Gly

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/525,621

DATE: 03/08/2005

TIME: 10:15:37

Input Set : A:\082368-002400US.TXT

Output Set: N:\CRF4\03082005\J525621.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application No

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date